

Name: \_\_\_\_\_

Date: \_\_\_\_\_

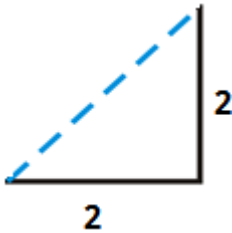
## 6<sup>th</sup> grade: Define --- The Great Super Polygon Bowl!

## Lesson 4

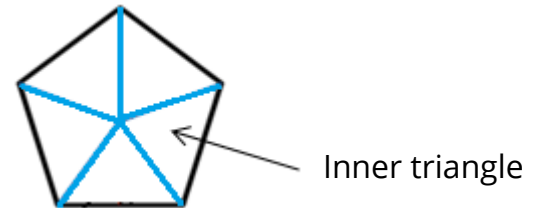
### Making Connections with Polygon Areas!

Describe how to find the area of each polygon below based on composing or decomposing (use the back of this sheet if you need more space to write your answer):

Describe how you could find the area of this right triangle:



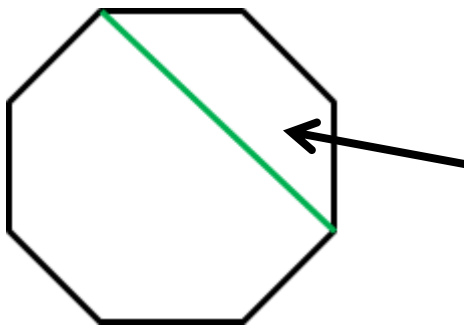
If the area of this regular pentagon is 30 sq. units, then the area of 1 regular inner triangle is:



If the area below of 1 regular inner triangle is 4 sq. units, then describe how you could find the area of the regular hexagon:



And if the trapezoid below is decomposed from the regular hexagon on the left, describe how you could find the area of the trapezoid:



If you knew the measure of each side of the regular octagon and if you knew the area of the trapezoid and the measure of its base, describe how you could find the area of the regular octagon by deconstructing it into other polygons: